A* Implementation for single agent pathfinding (assign # 1):

- only find path for a single agent
- we only kept in memory the nodes with optimal g*-value

A* Implementation for multi-agent pathfinding (CBS):

- accounts for multiple agents by considering their interactions and potential conflicts
- Keeps constraints in mind to make sure paths dont collide
- need to store one node representing each state and time step
- State s in time step 1 and state s in the same spot at time step 2 = store both copies
- This is because the optimal solution could require non-optimal g-values for individual agents
- $\,$ for example an agent waiting for a time step != optimal g-value